	_
	47
	//
- 1	v

	Application No.	Applicant(s)	
•	10/561,962	OOURA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Fred M. Teskin	1713	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate community GHTS. This application is s	this application. If not included inication will be mailed in due course. THIS	ive
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-8</u> .			
 3. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	n No	-
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		(PTO-948) attached	,
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the			
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			
Attachment(s)		*	٠
1. ☑ Notice of References Cited (PTO-892)	5. Notice of In	ormal Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview S	immary (PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	8), 7. ☐ Examiner's	Mail Date Amendment/Comment	
Paper No./Mail Date 122205 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance	•
	9.	. •	
•			

Application/Control Number: 10/561,962

Art Unit: 1713

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Applicants' claim (claim 1) a process for producing a vinyl chloride-based polymer, wherein a suspension polymerization of either vinyl chloride monomer, or a mixture of vinyl chloride monomer and another copolymerizable monomer, is conducted in a polymerization vessel fitted with a reflux condenser, the process comprising:

- (A) adding to a reaction mixture a high-activity, oil-soluble polymerization initiator, with a 10-hour half life temperature of no more than 40°C at a concentration of 0.1 mol/L in benzene, for a specified time within a period from commencement of heat removal using said reflux condenser through to completion of polymerization,
- (B) adding water either continuously or intermittently to said reaction mixture through a supply pipe for said polymerization initiator, at least during a period from commencement of addition of said high-activity, oil-soluble polymerization initiator through to completion of said addition, and
- (C) passing steam through said supply pipe following completion of addition of said water.

The closest prior art of record discloses a method for preparing vinyl chloride polymers which includes the step of polymerizing vinyl chloride monomer in an aqueous medium in the presence of a polymerization initiator and which is characterized by washing a pipe and an opening for charging the polymerization initiator into a polymerizer with water or water steam *after charging the polymerization initiator* into the

polymerizer through the opening and piping (Amano '988: col. 2, II. 38-42 and col. 3, II. 9-12).

In other words, Amano '988 requires passing water or water/steam through the pipe and the opening for charging the polymerization initiator only *after* the initiator has been charged into the polymerizer. By contrast, the present invention stipulates adding water to the reaction mixture through a supply pipe for the polymerization initiator at least *during* a period from commencement of addition of the defined initiator through to completion of such addition. The present invention further requires passing steam through the same supply pipe following completion of addition of the water. Amano '988 nowhere contemplates such sequential charging of water and steam through the pipe and opening for charging the polymerization initiator into the polymerizer.

Amano '988 fails to teach or fairly suggest adding the polymerization initiator, water and steam in the manner claimed.

A search of the relevant art has revealed no prior art that can be used, either singularly or in combination, to render the presently claimed process anticipated or obvious to a person having ordinary skill in the art at the time the invention was made.

Accordingly, claims 1-8 are deemed to define allowable subject matter and passed to issue.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 1713

Citation of Pertinent Art

Page 4

The prior art made of record and not relied upon is considered pertinent to applicants' disclosure.

Amano '524 is pertinent in its disclosure of externally heating the charging passage for introducing polymerization initiator into a vinyl chloride polymerization vessel after the initiator has been charged into the vessel.

Contact Information

Any inquiry concerning this communication should be directed to Examiner F. M. Teskin whose telephone number is (571) 272-1116. The examiner can normally be reached on Monday through Thursday from 7:00 AM - 4:30 PM, and can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reached on (571) 272-1114. The appropriate fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FMTeskin/06-12-06